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(54) Title: CRACKING FURNACE

(57) Abstract: The present invention refers to a novel type of cracking furnaces comprising a firebox provided with cracking coils - the cracking coils having at least one inlet, at least one inlet section, at least one outlet and at least one outlet section - and burners, wherein the parts of the coils are shielded. The invention further relates to a process for cracking hydrocarbon feeds, making use of a furnace according to the invention.